

Claims

1. A thin-walled plastics bottle comprising an (extrusion blow moulded body) and an (injection moulded) neck and cap assembly adapted to be fused together with the body after the body has been filled with a fluid, wherein the cap is fitted to the neck in order to provide a leak free resealable closure.
2. A closure for use with a thin-walled plastics bottle as claimed in claim 1 or another type of container having a body, wherein a foil is interposed between the body and the neck and cap assembly, and the neck and cap assembly comprises a base fitted to the body, a removable annular flange connected to a pull ring and secured to the foil, the removable annular flange being separated from the base by a frangible region, and a plurality of depending teeth each having a saw tooth profile inclined inwardly to a centre of the base formed in the base in or adjacent to the frangible region such that on removal of the pull ring the foil is torn by the teeth.
3. A closure as claimed in claim 2, wherein the cap comprises a cover plate and a depending skirt and the base has a weakened annular recess (48), which is concealed by a skirt of the cap, when the closure is sealed.
4. A closure as claimed in claim 2, wherein the pull ring is supported above the annular flange (30) by means of a pair of adjacent spaced legs (40) to promote symmetrical tearing of the foil
5. A closure as claimed in claim 2, wherein the foil is a tearable aluminium foil coated with a fusible polymer material on both sides.
6. A bottle comprising a body (2) having an open mouth (4), a neck and cap assembly comprising a skirt (44) adapted to engage over the

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mouth and defining a pour spout (18) and having a pull ring (42) coupled to a removable part (30) held within a base (20) of the neck which seats against an upper surface (12) of the mouth; and

5 a foil (70) interposed between the surface (12) and the base (20) and fused with both such that removal of the pull ring (42) and removable part (30) removes at least part of the foil (70) and opens the spout (18);

10 characterised in that the removable part comprises an annular flange (30) separated from a remainder of the base (20) by means of a frangible valley (32) defining a plurality of depending teeth (36) each having a saw tooth profile inclined inwardly to a centre of the base such that on removal of the pull ring the foil (70) is torn by the teeth (36).

7. A process for bottling fluid comprising the steps of:
extrusion blow moulding thin-walled bottle bodies having open mouths;
filling said bottle bodies;
15 fitting an injection moulded neck and cap assembly having a base of the neck covered by a foil and sized to correspond to the open mouth of the bottle body to each filled bottle body;
heat sealing the bottle bodies to the foil of the neck and cap assemblies.

8. A process as claimed in claim 7, further comprising sterilising the foil prior to
20 the fitting step.

9. A process as claimed in claim 7, wherein the bottle bodies are blow moulded using a rotary machine having a series of moulds adapted to pass beneath a single die-head for the supply of a predetermined amount of plastics material to form a parison which is subsequently inflated to form said body.

25 10. A process as claimed in claim 10, wherein the bottle body leaving the mould is passed directly to a filling station.

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